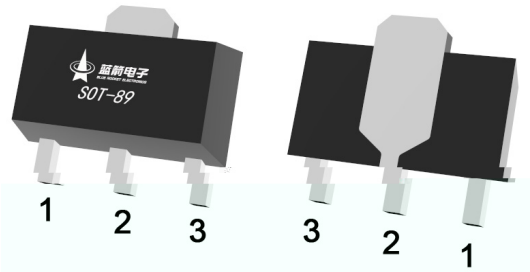
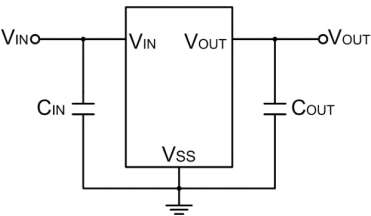


SOT-89
Low dropout linear regulator in a SOT-89 Plastic Package .

- ◆ 2uA
- ◆ 300mA
- ◆ 200mV@100mA(V_{OUT}=3.3V)
- ◆ ±2%
- ◆ 70dB@1kHz
- ◆ 90uV_{RMS} 10Hz~100kHz
- ◆
- ◆
- ◆
- ◆

- ◆
- ◆
- ◆
- ◆
- ◆



PIN1 /T6 TDT4 f-14.0056 -4.1429 TD()T4958 0 0 10.5 62.98e29 TD()T4958 0 0 10.5 62

/ Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

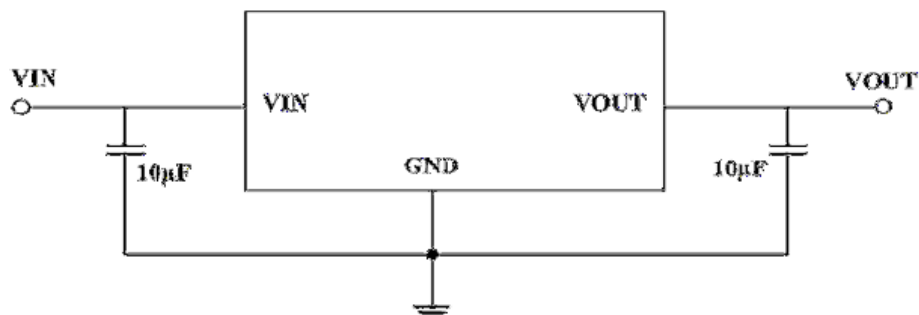
	V_{IN}	-0.3 to 40	V
	I_{OUT}	600	mA
	P_D	0.6	W
	T_{stg}	-40 to +125	$^\circ\text{C}$
	T_A	-40 to +125	$^\circ\text{C}$
10s	T_{sold}	260	$^\circ\text{C}$
	HBM	2	kV
	MM	200	V

/ Electrical Characteristics($T_A=25^\circ\text{C}$, $V_{IN}=V_{OUT}+1\text{V}$, $C_{IN}=C_{OUT}=1\mu\text{F}$, unless otherwise specified)

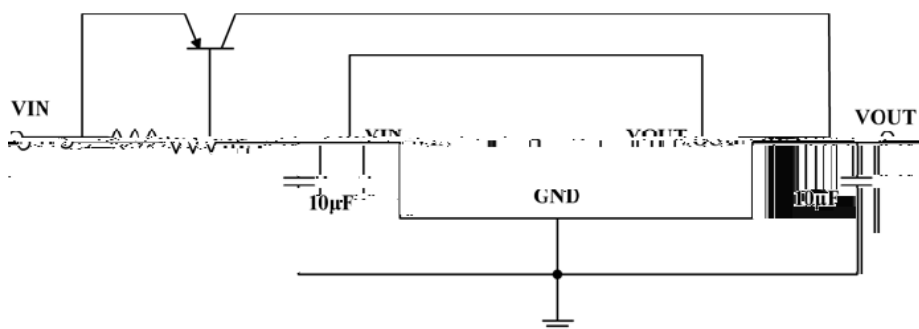
	V_{IN}				36	V
1	V_{OUT}	$I_{OUT}=10\text{mA}$	3.234	3.3	3.366	V
2	V_{dif}	$I_{OUT}=100\text{mA}$ $V_{OUT}=3.3\text{V}$		200		mV
	I_{SS}	$I_{OUT}=0\text{mA}$		2	5	μA
	V_{load}	$V_{IN}=V_{OUT}+1\text{V}$ $1\text{mA} \leq I_{OUT} \leq 300\text{mA}$		15	50	mV
	$\frac{V_{OUT}}{(V_{IN}-V_{OUT})}$	$I_{OUT}=10\text{mA}$ $V_{OUT}+1\text{V} \leq V_{IN} \leq 36\text{V}$		0.01	0.1	%/V
	$\frac{V_{OUT}}{(T_A-25^\circ\text{C})}$	$I_{OUT}=10\text{mA}$ $-40^\circ\text{C} \leq T_A \leq 125^\circ\text{C}$		50		ppm/
	I_{LIM}	$V_{OUT}=0.5 \times V_{OUT(Normal)}$, $V_{IN}=5\text{V}$	350			mA
	I_{SHORT}	$V_{OUT}=V_{SS}$		100		mA
	PSRR	$I_{OUT}=50\text{mA}$ $f=100\text{Hz}$		75		dB
		$I_{OUT}=50\text{mA}$ $f=1\text{kHz}$		70		
		$I_{OUT}=50\text{mA}$ $f=10\text{kHz}$		55		
		$I_{OUT}=50\text{mA}$ $f=100\text{kHz}$		40		

/ Typical Application Circuit

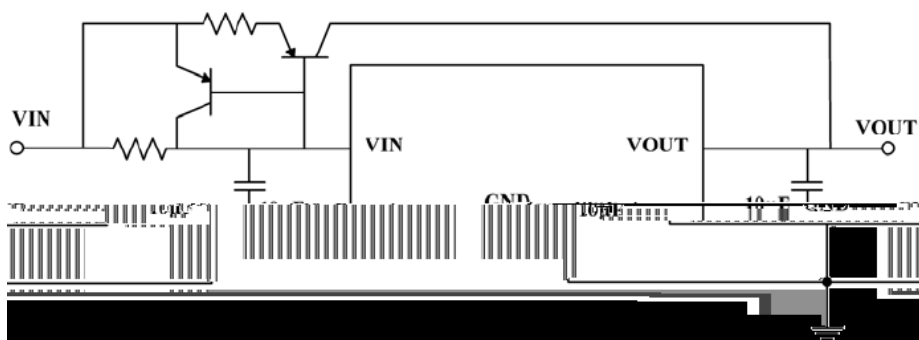
/ Basic Application



/ High Output Current Voltage Regulator

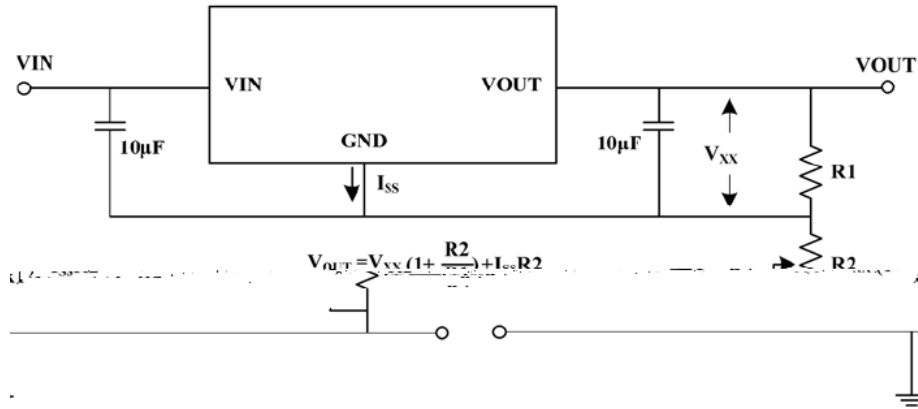


/ Short-Circuit Protection

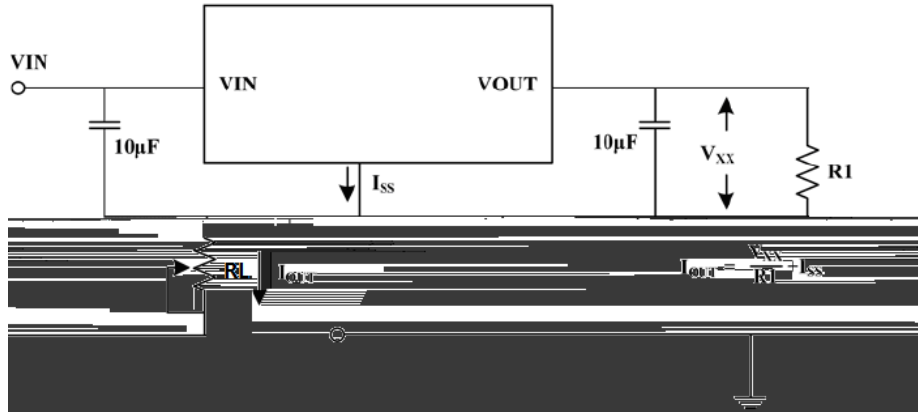


/ Typical Application Circuit

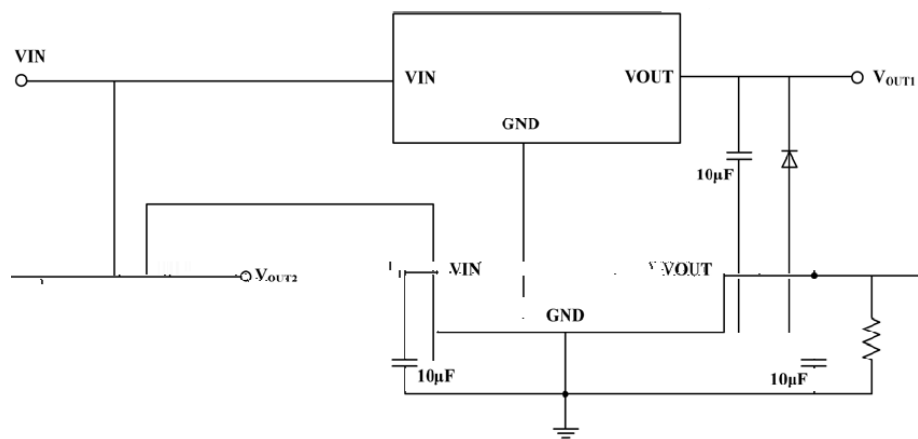
/ Circuit for Increasing Output Voltage



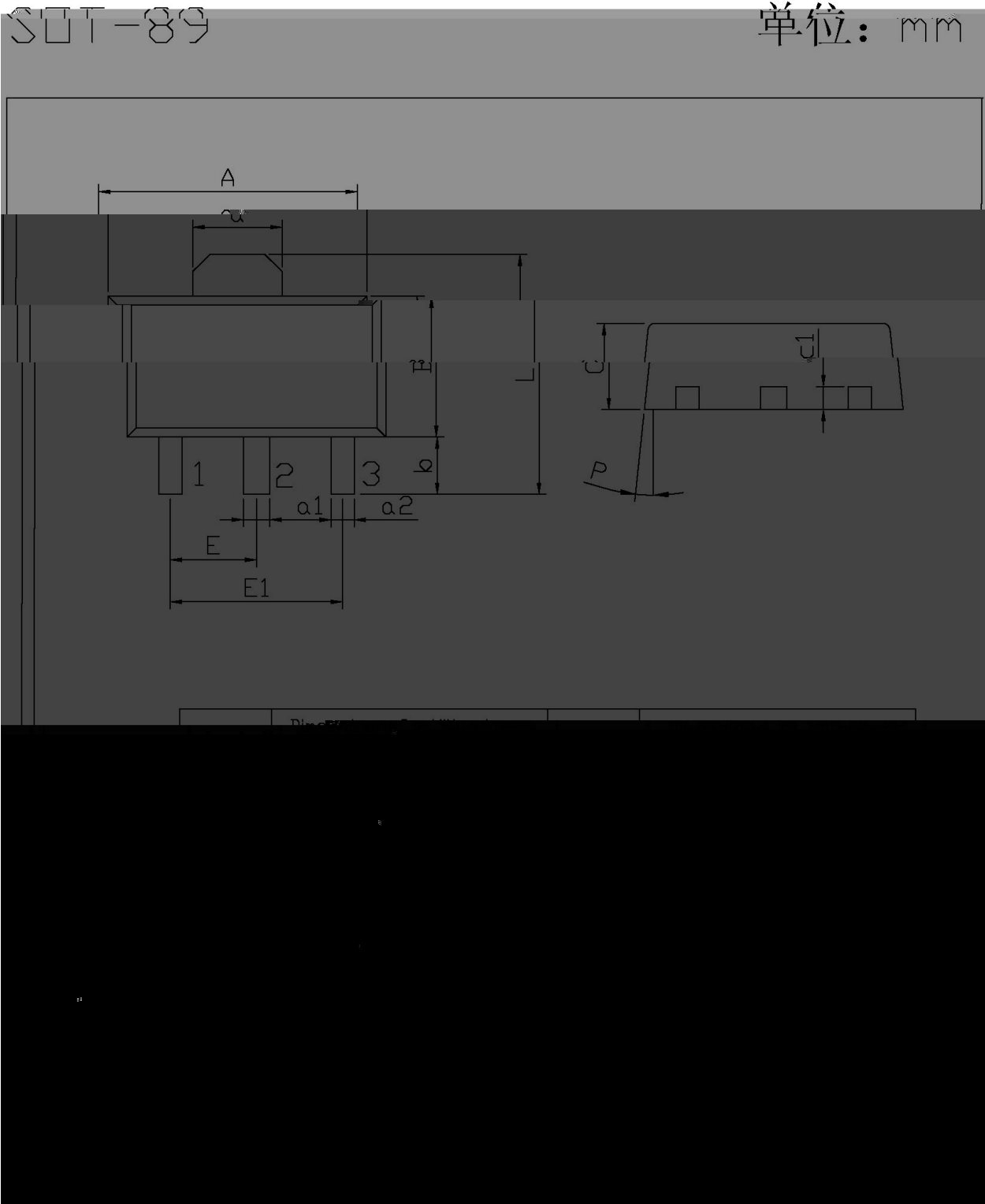
/ Constant Current Regulator



/ Double Output Circuit

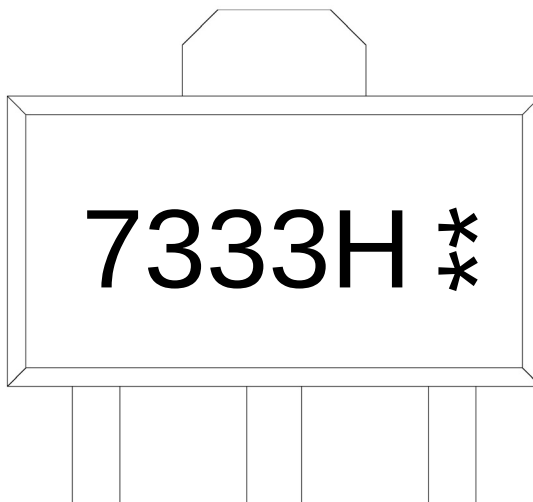


/ Package Dimensions





/ Marking Instructions



7333H

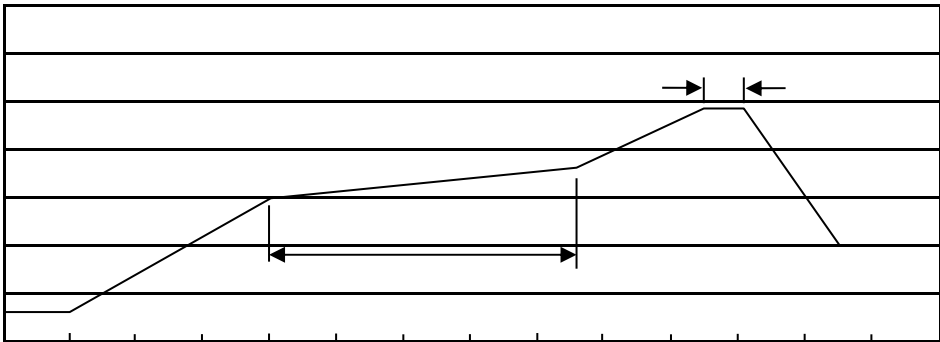
**

Note:

7333H: Product Type Code

** : Lot No. Code, code change with Lot No

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5 , Duration:5±0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5℃ Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOT-89	1,000	10	10,000	4	40,000	7 ×12	210×205×205	445×435×230

/ Notices